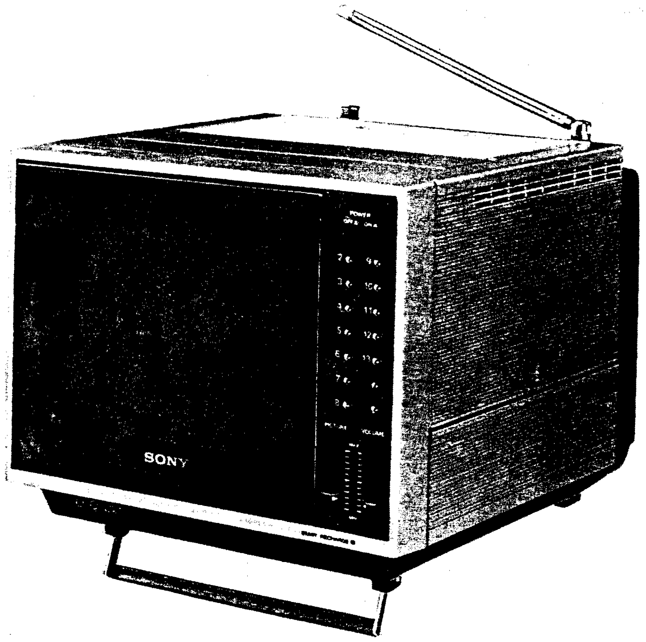
KV-8100
BP-81

US Model

Chassis No. SCC-284A-A

Original



TRINITRON®
COLOR TV

SPECIFICATIONS

Television System:	American TV standards
Color System:	NTSC
Picture Tube:	20.3 cm, 8" (measured diagonally), 70° deflection TRINITRON system
Semiconductors:	54 transistors, 70 diodes, thermistor and 9 ICs
Antennas:	VHF/UHF: telescopic antenna 75 Ω external antenna jack
Channel Coverage:	VHF channels: 2 – 13 UHF channels: 14 – 83
Intermediate Frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz
Sound System:	4.5 MHz intercarrier Output power: 900 mW (at 10 % harmonic distortion) Speaker: 10 cm (4 inches) dia, 32 Ω
Video System:	RGB cathode drive
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller)
Anode Voltage:	17.2 kV at zero beam current
Power Requirements:	120 V ac, 12 V dc 24 V dc
Power Consumption:	49 W (max) AC, 40 W (average) DC (12 V) 33 W (average) DC (24 V) 33 W (average) BATT. (24 V)
Dimensions:	261 (w) x 236 (h) x 326.5 (d) mm 10¼ (w) x 9 ⅜ (h) x 12 ⅞ (d) inches
Net Weight:	8.8 kg (19 lb 3 oz)
Accessories Supplied:	Channel label Instruction manual Schematic diagram Power cord Antenna connector (EAC-4)

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECOME OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SONY®
SERVICE MANUAL

SECTION 3
SETUP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Controls and switches should be set as follows:

PICTURE control } ······ maximum
BRIGHT control } ······ (fully clockwise)
AUTO and AFT switches ..... ON

Make the following adjustments in the order given.

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:

- Feed in the cross-hatch pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Adjust purity magnet tabs as shown in Fig. 3-1.
4. Slide deflection yoke as far forward as it will go.
5. Disconnect leads Ⓡ and Ⓑ on the C board.
6. Adjust purity magnet tabs to center vertical green band as shown in Fig. 3-2.
7. Slide deflection yoke back for a uniform green screen.
8. Check red and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.
   To get a uniform red screen,
   .... connect lead Ⓡ and disconnect leads Ⓖ and Ⓑ on the C board.
   To get a uniform blue screen,
   .... connect lead Ⓑ and disconnect leads Ⓖ and Ⓡ on the C board.
   After these checks, connect the leads Ⓖ, Ⓡ and Ⓑ.
9. Tighten the deflection yoke screw.
10. Install the deflection yoke spacers.
11. Check if mislanding appears at corners a–d as shown in Fig. 3-3. If mislanding is observed, correct it as shown in Fig. 3-3.
12. Confirm that beam landing is correct when the receiver is faced in all directions.

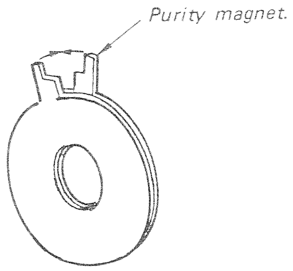

Purity magnet.

Fig. 3-1.

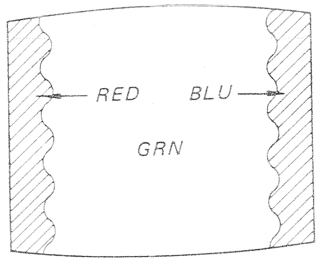


Fig. 3-2.

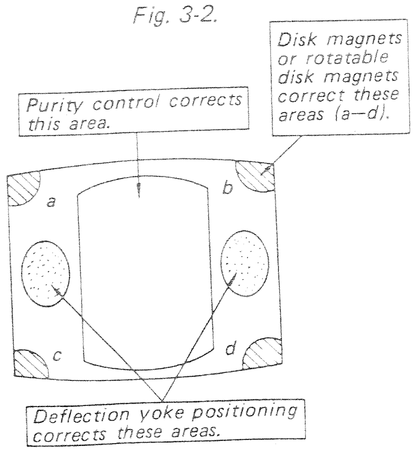

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a–d).
a
b
c
d
Deflection yoke positioning corrects these areas.

Fig. 3-3.

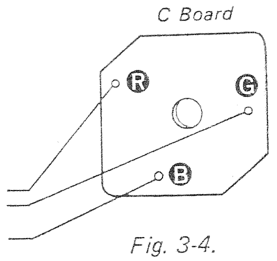


Fig. 3-4.

3-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Turn BRIGHT control fully counterclockwise, and set PICTURE control to mechanical center.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots;

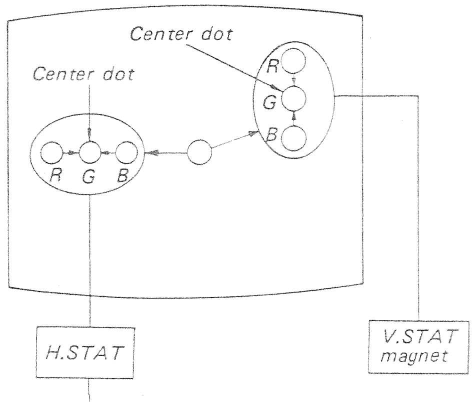
Move H.STAT magnet tabs (a) to correct insufficient H.static convergence.

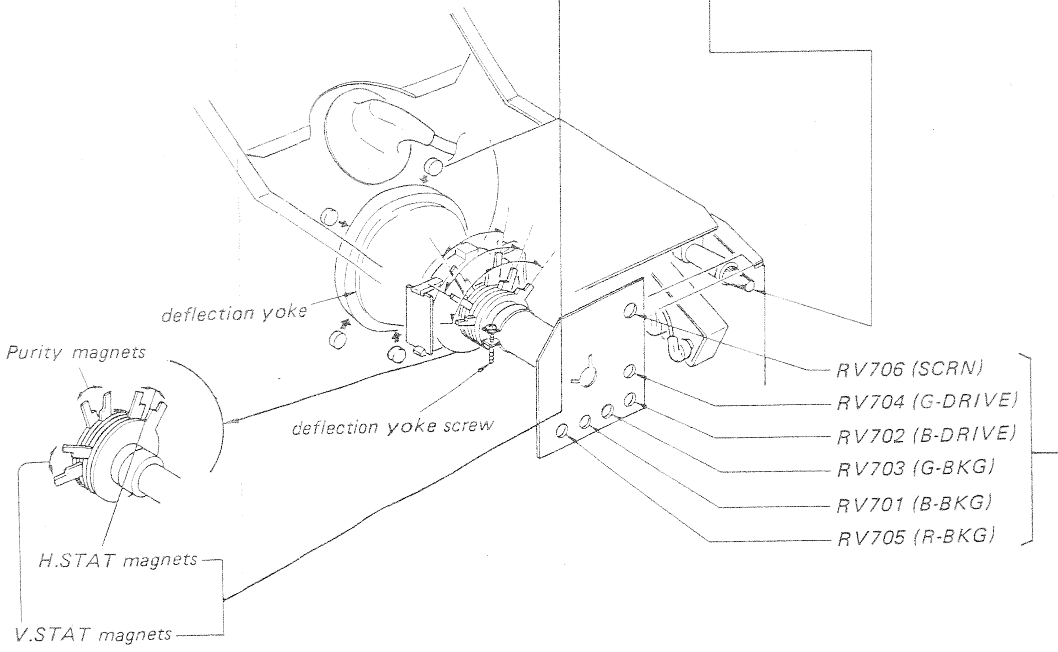
Move V.STAT magnet tabs (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

(2) Dynamic Convergence

Adjust H.STAT control so that green and blue dots coincide at center of screen.


Center dot
Center dot
R
G
B
R G B
H.STAT
V.STAT magnet


deflection yoke
Purity magnets
deflection yoke screw
H.STAT magnets
V.STAT magnets
RV706 (SCRN)
RV704 (G-DRIVE)
RV702 (B-DRIVE)
RV703 (G-BKG)
RV701 (B-BKG)
RV705 (R-BKG)

3-3. WHITE BALANCE

1. Turn COLOR, BRIGHT and PICTURE controls fully counterclockwise.
2. Turn G. DRIVE (RV704) and B. DRIVE (RV702) fully clockwise.
3. Set R. BKG (RV705), G. BKG (RV703) and B. BKG (RV701) to mechanical center.
4. Turn SCRN (RV706) control slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning SCRN control. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn BRIGHT and PICTURE controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

SECTION 4
CIRCUIT ADJUSTMENTS

Note:

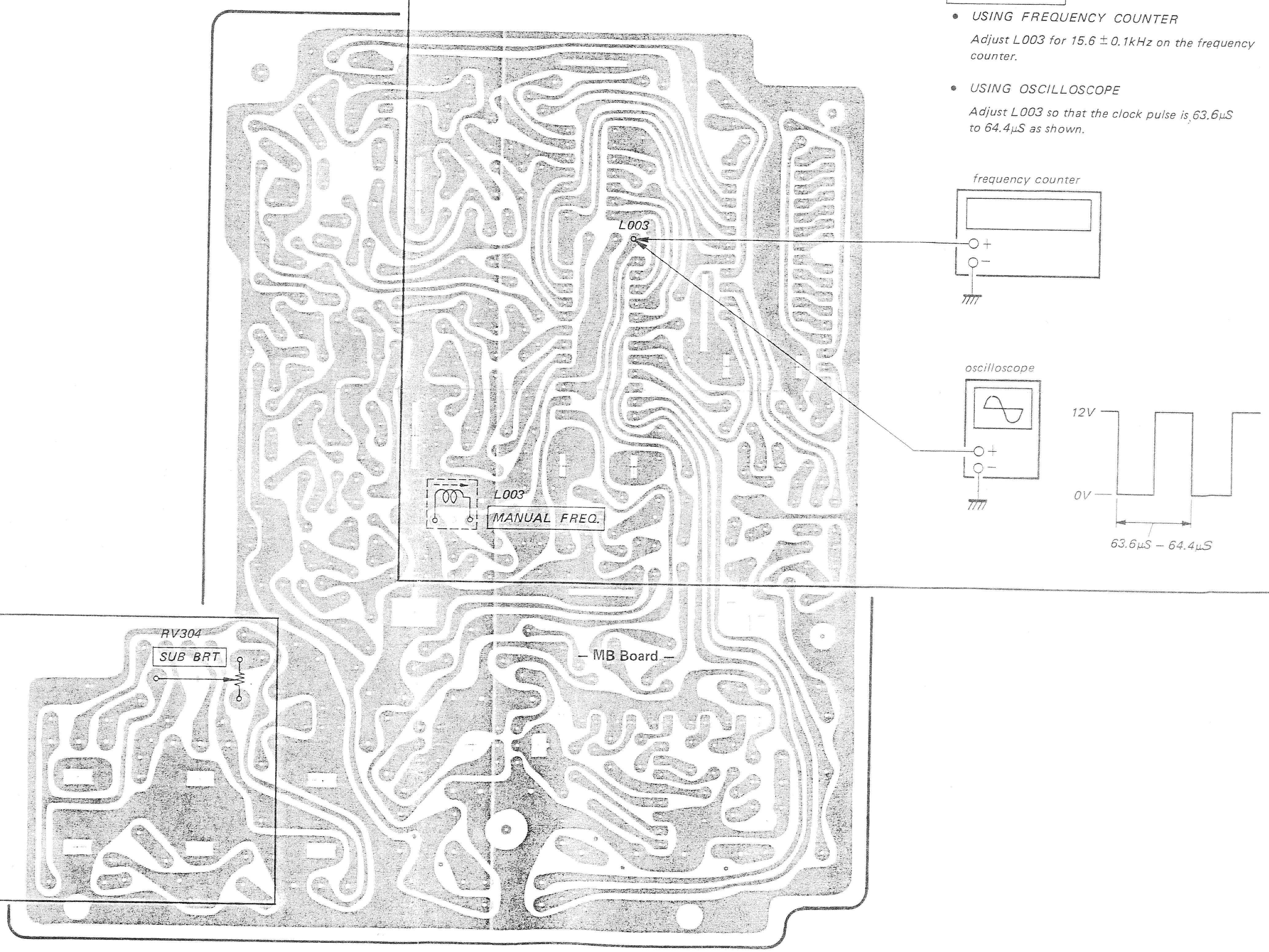
(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Color-bar/pattern generator
4. Variable autotransformer

(2) INPUT SIGNAL

When making these adjustments, feed in a cross-hatch, color-bar, or an off-air signal.

4-1. MB BOARD ADJUSTMENTS



MANUAL FREQ.

- *USING FREQUENCY COUNTER*

  Adjust L003 for 15.6 ± 0.1kHz on the frequency counter.

- *USING OSCILLOSCOPE*

  Adjust L003 so that the clock pulse is 63.6μS to 64.4μS as shown.

SUB BRT

1. *Tune in an off-air signal.*
2. *Tune the PICTURE control to fully counter-clockwise, and set the BRIGHTNESS control for the suitable picture.*
3. *Set the AFT/AUTO switch to OFF and the COLOR control to fully counterclockwise, so that the monochrome picture will appear.*
4. *Set RV304 for a proper brightness of the picture.*
5. *Set the PICTURE control for the suitable picture.*
6. *Confirm that the brightness does not change excessively on other channels.*

4-2. D BOARD ADJUSTMENTS

R532, R533 and R534 Adjustments

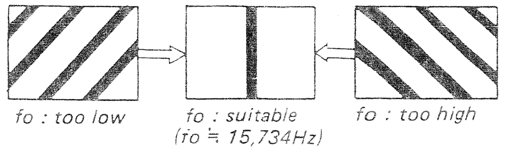
When replacing the following components make this adjustment.
C531, C534, C535, C536, D531, D532, D533, D534, Q531, Q532 R531, R532, R533, R534, R536, R538, R539, T504, T801
(marked ◪ on schematic diagram)

(Picture tube → cut off)

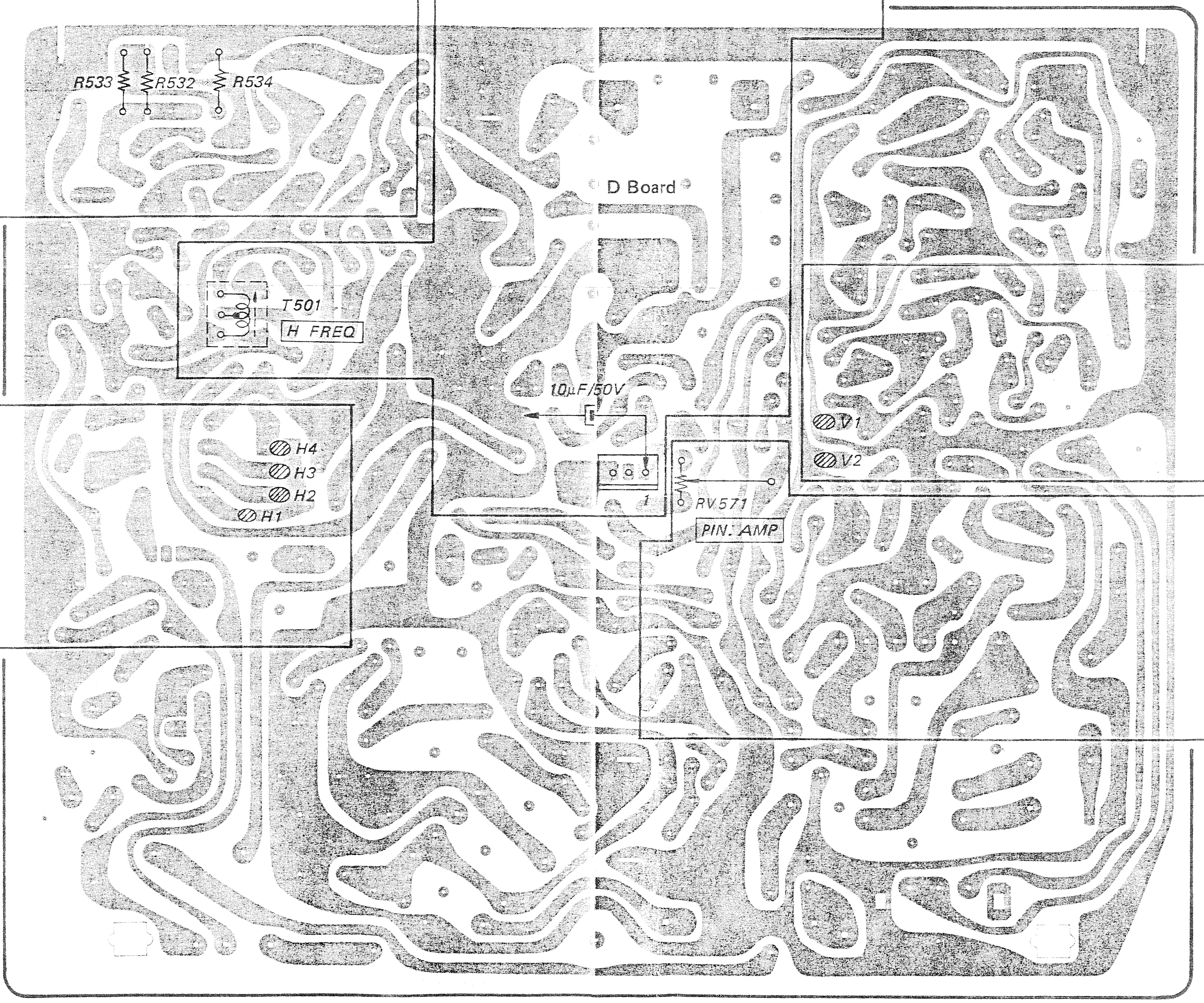
1. *Contact a regulated dc power supply to the minus side of C804 and supply 24.5 – 25.5V dc.*
2. *When the dc voltage is supplied, confirm that HV hold down circuit operates.*
3. *If the above steps is satisfied, select resistance values of △R532, △R533 and R534 and repeat above steps 1 through 3.*
4. *When the dc voltage supply 24.4 ± 0.1V dc, confirm that HV hold down circuit doesn't operates.*

H. FREQ

1. *Tune in a strong off-air signal.*
2. *Adjust the PICTURE, BRIGHT and V. HOLD controls for the suitable and stable picture.*
3. *Connect a 10µF/50V electrolytic capacitor between the pin 1 of D7 connector and the ground.*
4. *Adjust T501 for the stable picture as shown.*



5. *Confirm that the stable picture is obtained on other channels.*



H. CENT

Picture position is selected from four steps below.

1. *Without soldering.*
2. *To solder H1.*
3. *To solder H2.*
4. *To solder H3.*
5. *To solder H4.*

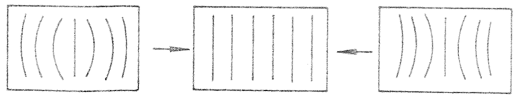
The picture move to right in order steps 1 to 5.

V. CENT

1. *When the picture is shifted above, solder V1*
2. *When the picture is shifted below, solder V2*
3. *When V1 and V2 are not soldered, picture positions between steps 1 and 2.*

PINCUSHION AMP

Adjust RV571 to make vertical lines straight as shown below.



4-3. A BOARD ADJUSTMENTS

RF AGC U-V

1. *Tune in an off-air signal.*
2. *Adjust RV201 so that snow noise and cross-modulation disappear from the picture.*

AFT

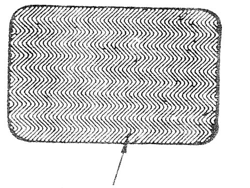
1. *Tune in an off-air signal.*
2. *Set the AUTO/AFT switch to OFF.*
3. *Set the PRESET switch (S081) to off, obtain 920kHz beat to press the TUNING UP (▶) switch (S083).*
4. *Press the TUNING DOWN (◀) switch (S084) to the point where the 920kHz beat just disappears.*
5. *Set the AUTO/AFT switch to ON. (The 920kHz beat will appear again.)*
6. *Set T205 to the point where the 920kHz beat just disappears.*

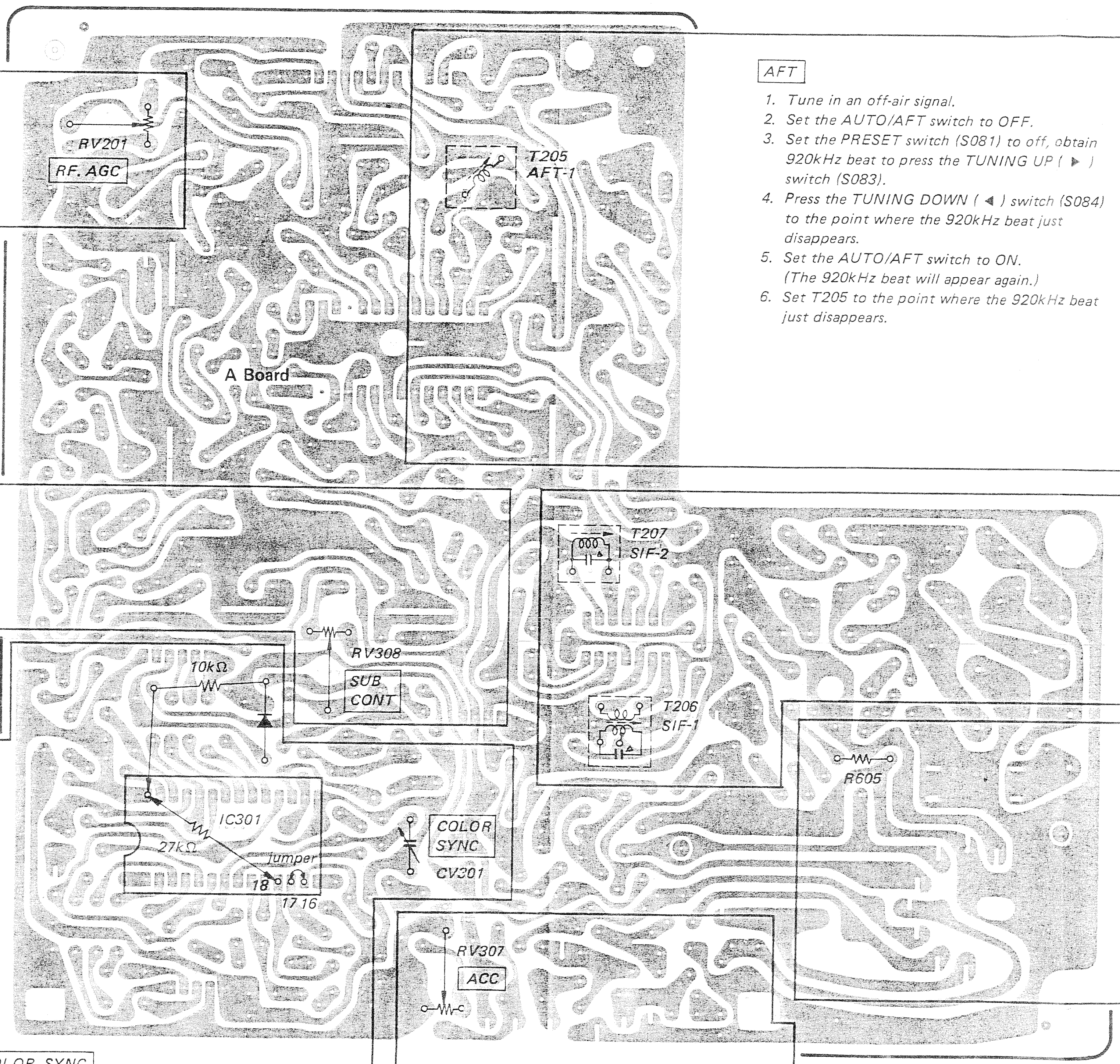
CHECK

1. *Set the AUTO/AFT switch to OFF.*
2. *Shift the tuning by pressing the TUNING UP (▶) or TUNING DOWN (◀) button and confirm that the suitable picture is obtained when AUTO/AFT switch is set ON.*

AFTER ADJUSTMENT

1. *Set the AFT/AUTO switch ON.*
2. *Press the TUNING UP (▶) or TUNING DOWN (◀) button.*





SUB CONTRAST

1. *Tune in an off-air signal.*
2. *Set the PICTURE and BRIGHT controls to the suitable picture.*
3. *Set AUTO/AFT switch to OFF and turn the COLOR control to counterclockwise to obtain the monochrome picture.*
4. *Adjust RV308 for the suitable contrast picture.*
5. *Confirm that contrast does not change excessively on other channels.*

SIF

1. *Tune in an off-air signal.*
2. *Adjust T206 and T207 for maximum clear-sound.*

R605 ADJUSTMENT

When replacing the following components, make the this adjust, D605, Q602, Q901, R604, R605, RV601, T901 (marked ◪ on schematic diagram).

Picture tube ——→ cut off
INPUT ——→ AC 130V
RV601 ——→ fully clock wise

Confirm that the B+ voltage is less than 25.2V. If necessary, select the part marked ⊠ to obtain specification.

COLOR SYNC

1. *Feed in a color-bar signal from the color-bar/pattern generator.*
2. *Set the switch and controls as shown below.*
   - *AUTO/AFT switch .... ON*
   - *COLOR control } .... mechanical center*
   - *HUE control }*
   - *PICTURE control .... fully clockwise*
3. *Connect a 27kΩ resistor between the pin 18 and 1 of IC301.*
4. *Connect a 10kΩ resistor between the cathode of D301 and the pin 1 of IC301.*
5. *Short circuit between the pin 16 and 17 of IC301 with a jumper.*
6. *Adjust CV301 to obtain the stable color picture.*
7. *Disconnect the 27kΩ and 10kΩ resistors and the jumper.*

ACC

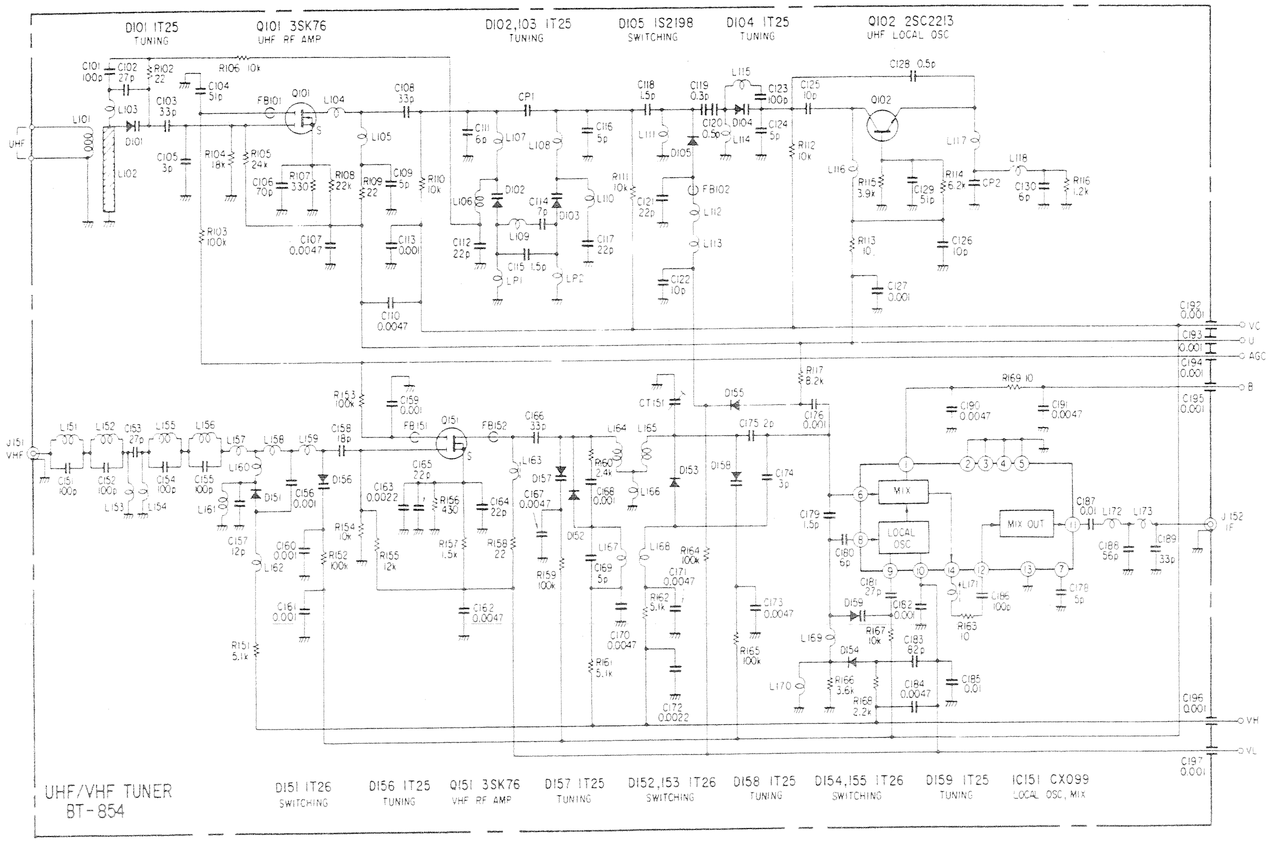
1. *Tune in a strong off-air signal.*
2. *Set the COLOR and HUE controls to the mechanical center.*
3. *Set the PICTURE and BRIGHT controls for the suitable picture.*
4. *Adjust RV307 for a proper color intensity.*
5. *Confirm the color intensity does not change to excessive color intensity on other channels.*

SECTION 5
DIAGRAMS

5-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

– VHF/UHF Tuner –

(BT-854)

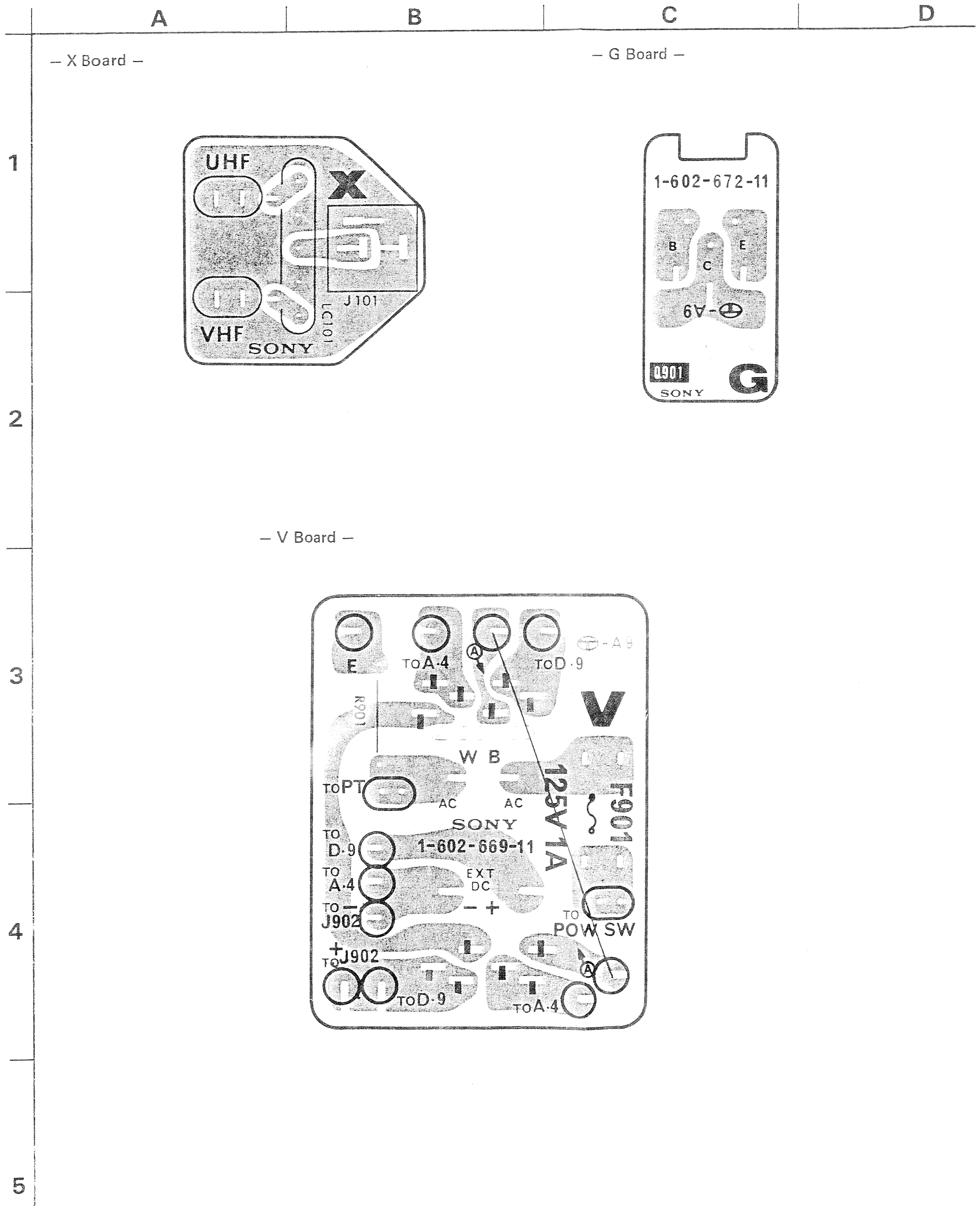

D101 1T25 TUNING
Q101 3SK76 UHF RF AMP
D102,103 1T25 TUNING
D105 1S2198 SWITCHING
D104 1T25 TUNING
Q102 2SC2213 UHF LOCAL OSC
UHF
J151 VHF
J152 IF
MIX
LOCAL OSC
MIX OUT
VC
U
AGC
B
VH
VL
UHF/VHF TUNER BT-854
D151 1T26 SWITCHING
D156 1T25 TUNING
Q151 3SK76 VHF RF AMP
D157 1T25 TUNING
D152,153 1T26 SWITCHING
D158 1T25 TUNING
D154,155 1T26 SWITCHING
D159 1T25 TUNING
IC151 CX099 LOCAL OSC, MIX

- Tuner reference numbers are not included in the Electrical Parts List.

X [ANT TERMINAL] **G** [22V REG] **V** [AC IN / DC IN]

5-2. MOUNTING DIAGRAMS

– Conductor Side –


A
B
C
D
1
2
3
4
5
– X Board –
UHF
X
J101
LC101
VHF
SONY
– G Board –
1-602-672-11
B
E
C
A-9
Q901
G
SONY
– V Board –
E
TO A-4
TO D-9
A-9
R901
V
W B
TO PT
AC
AC
SONY
1-602-669-11
125V 1A
F901
TO D-9
TO A-4
TO J902
EXT DC
− +
TO POW SW
+ TO J902
TO D-9
TO A-4

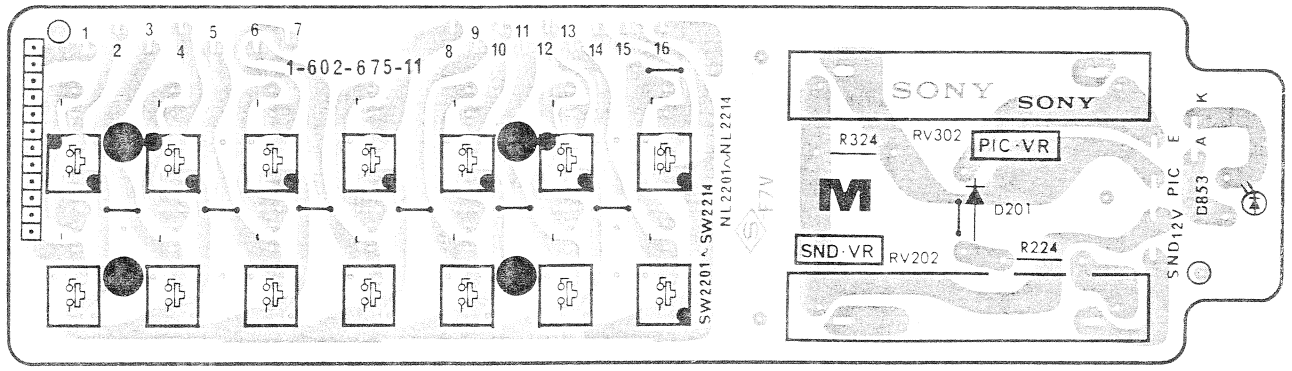
SCC-284A-A **KV-8100** **KV-8100** *SCC-284A-A*

[CHANNEL SELECT
PICTURE SOUND CONT] **M** **C** [R, G, B, OUT] **S** [TUNER,
ACTIVE FILTER]

A B C D

1 2 3

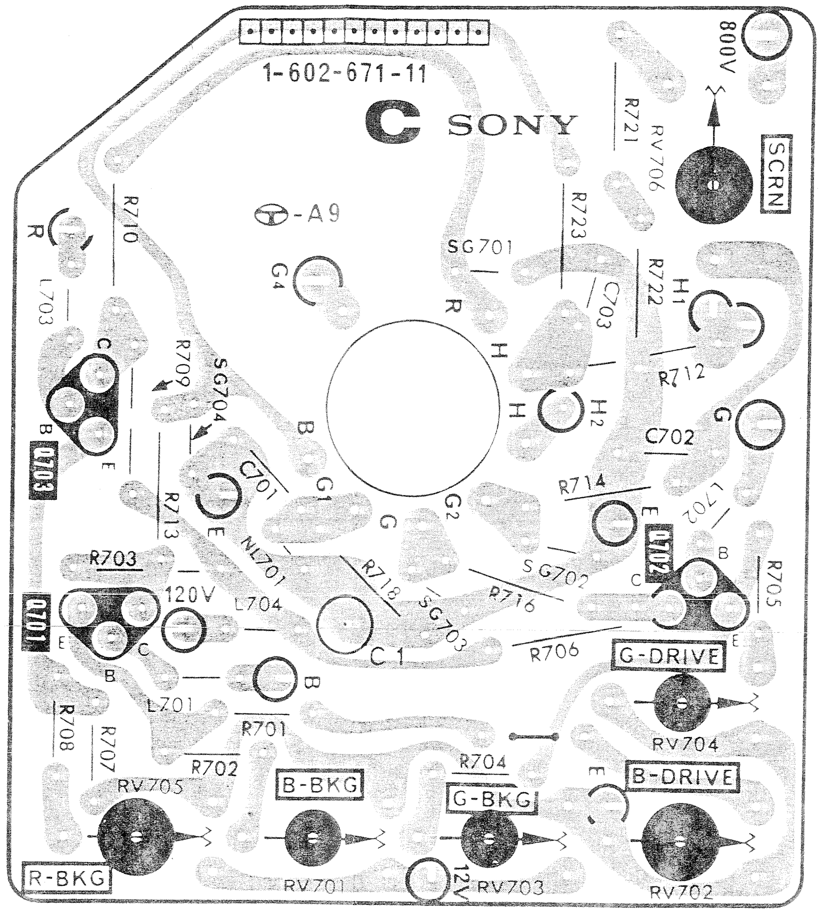
– M Board –


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1-602-675-11
SONY
SONY
R324
RV302
PIC·VR
M
D201
SND·VR
RV202
R224
SW2201~SW2214
NL2201~NL2214
17V
SND 12V PIC
D853
E A K

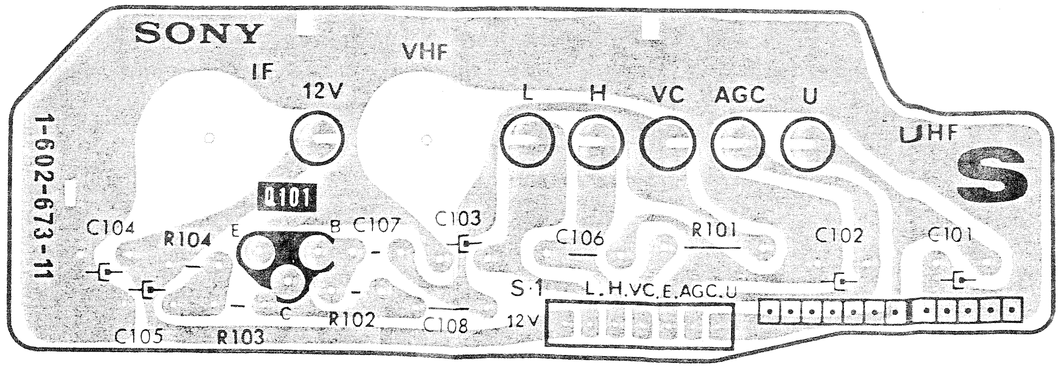
A B C D

1 2 3 4 5

– C Board –

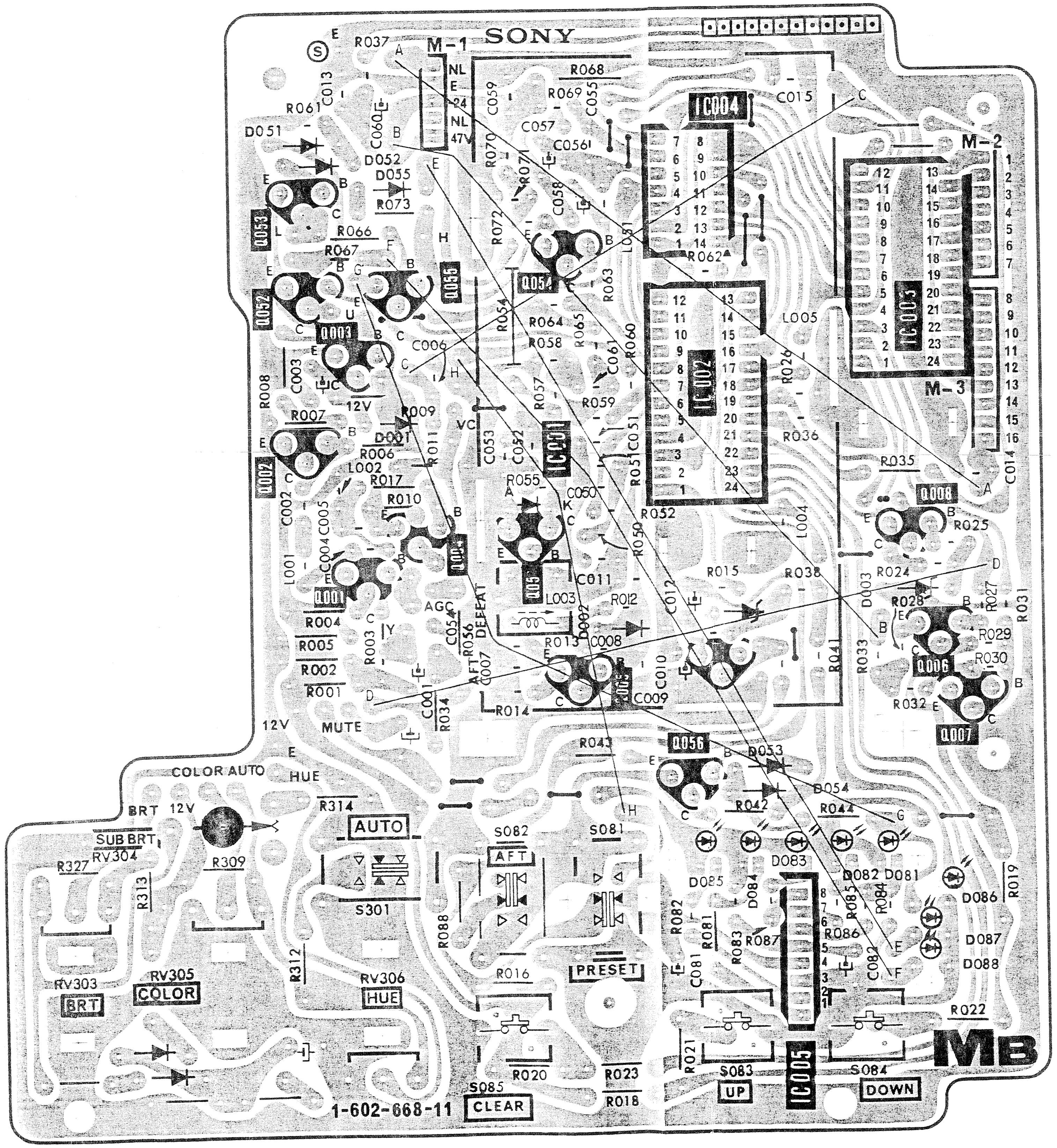

1-602-671-11
C SONY
800V
R721
RV706
SCRN
R710
R
L703
-A9
G4
SG701
R723
R722
C703
H1
R
H
H
H2
R712
R709
SG704
B
G
C702
C
B
E
Q703
C701
R713
G1
G
G2
R714
L702
E
Q702
B
C
E
R705
NL701
R718
SG702
R703
120V
L704
C1
SG703
R716
Q701
E
C
B
R706
G-DRIVE
L701
B
R701
RV704
R708
R707
R702
R704
B-BKG
G-BKG
B-DRIVE
E
RV705
R-BKG
RV701
12V
RV703
RV702

– S Board –


SONY
IF
12V
VHF
L H VC AGC U
UHF
S
1-602-673-11
Q101
C104
R104
E
B
C107
C103
C106
R101
C102
C101
S-1
L.H.VC.E.AGC.U
C
C105
R103
R102
C108
12V

MB **MB** [TUNING CONTROL MEMORY, NEON DRIVE BAND SWITCH]

– MB Board –


A
B
C
D
E
F
1
2
3
4
5
SONY
M-1
M-2
M-3
IC001
IC002
IC003
IC004
IC005
Q001
Q002
Q003
Q004
Q005
Q006
Q007
Q008
Q051
Q052
Q053
Q054
Q055
Q056
12V
MUTE
COLOR AUTO
HUE
BRT
SUB BRT
AGC
AFT
DEFEAT
AUTO
S301
S081
S082
S083
S084
S085
UP
DOWN
CLEAR
PRESET
BRT
COLOR
HUE
RV303
RV304
RV305
RV306
1-602-668-11
MB

Q, IC	D	ADJ
	051	
	052	
IC004	055	
053		
054		
IC003		
052 055		
003		
IC002		
	001	
002		
IC001		
051 008		
004		
001		
	003	
006	002	
005		
007		
	053	
056	054	
	085 083	
	084 082	RV304
	086	RV303
	087	RV305
	088	
		RV306
Q, IC	D	ADJ

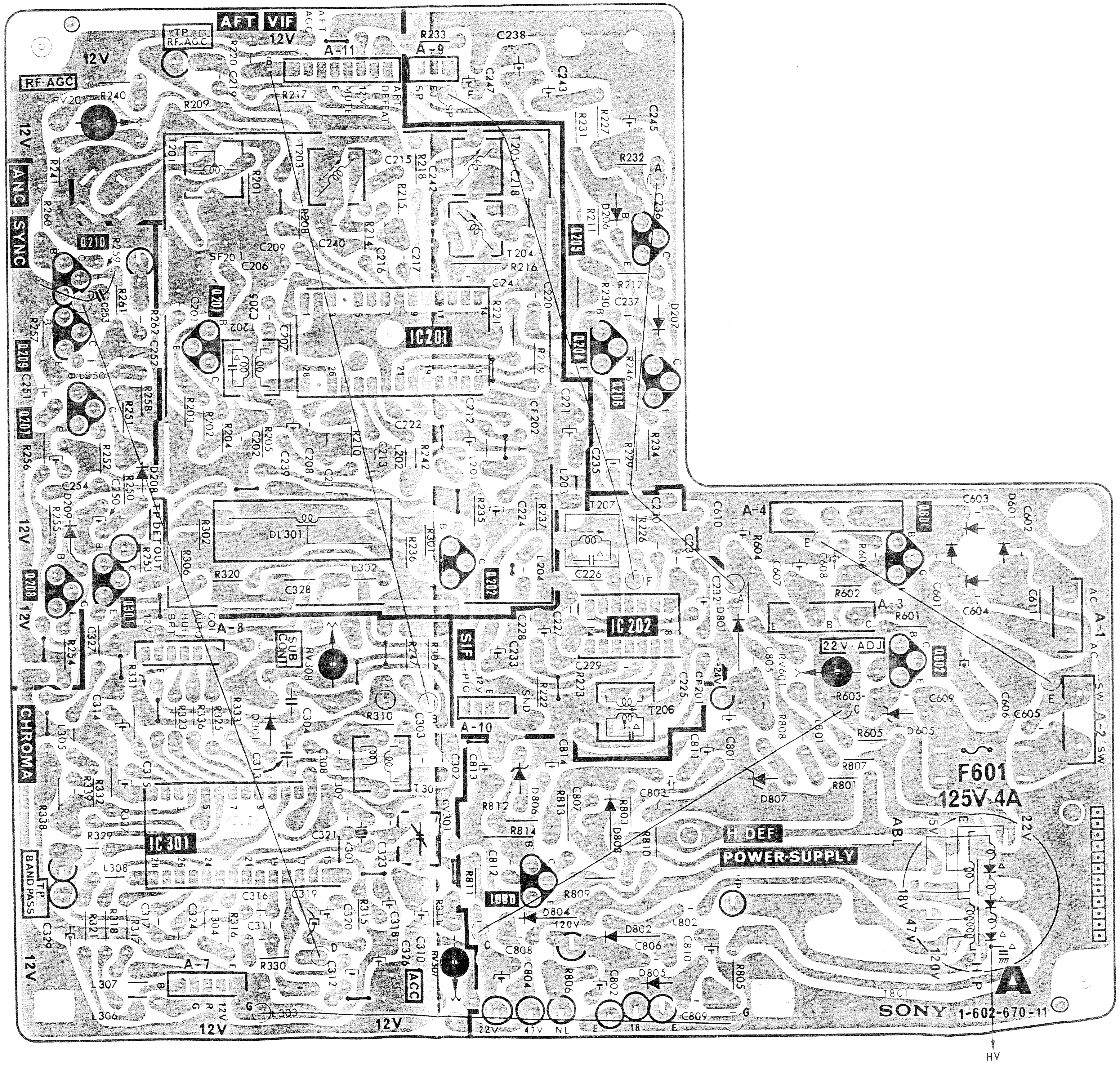
A **A** [VIF, SIF CHROMA, Y. AMP SYNC SEP, POWER SUPPLY]

A B C D E F G

1 2 3 4 5

– A Board –

Q, IC	D	ADJ
		RV201
	206	
205		
210		
209	207	
IC201		
201 204		
206		
207		
	208	
	209	
202 601		
301	601	
208		
IC202	801	
602		RV308
		RV601
	301 605	
	806 807	
	803	
IC301		
801		
	804	
	802	
		RV307
	805	
Q, IC	D	ADJ


AFT
VIF
12V
TP RF-AGC
RF-AGC
A-11
A-9
R233
C238
RV201
R240
R209
ANC
SYNC
IC201
Q210
Q209
Q207
Q208
Q201
Q205
Q204
Q206
Q202
Q301
DL301
A-8
SUB CONT
RV308
SIF
A-10
IC202
T206
T207
A-4
A-3
A-1
A-2
22V ADJ
RV601
F601
125V 4A
H DEF
POWER SUPPLY
ABL
CHROMA
IC301
TP BAND PASS
A-7
ACC
RV307
T601
22V
47V
NL
18
SONY
1-602-670-11
A
HV

5-3. SCHEMATIC DIAGRAM

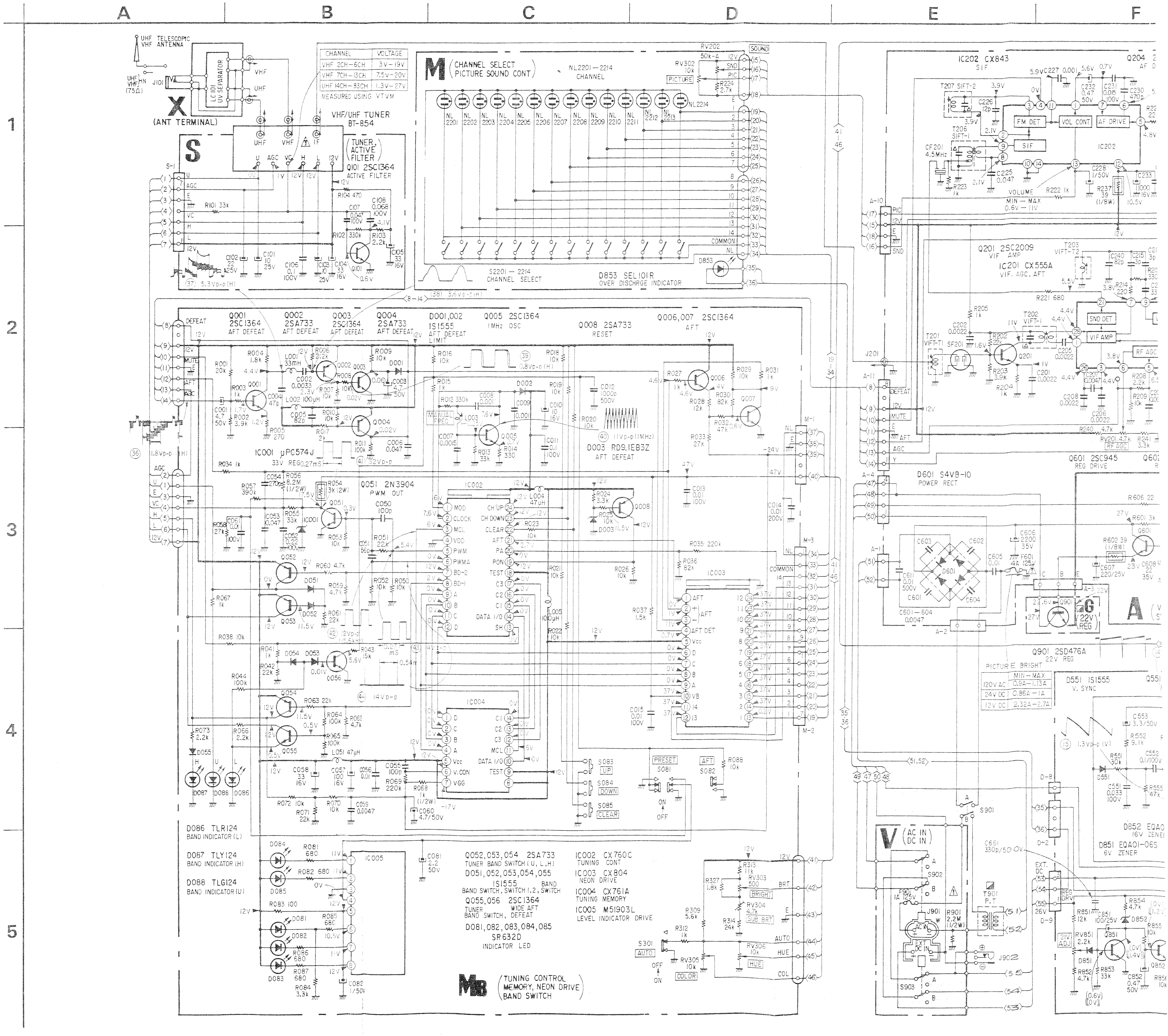
Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : μμF
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved. (Refer to R532, R533, R534 adjustment on page 13.)

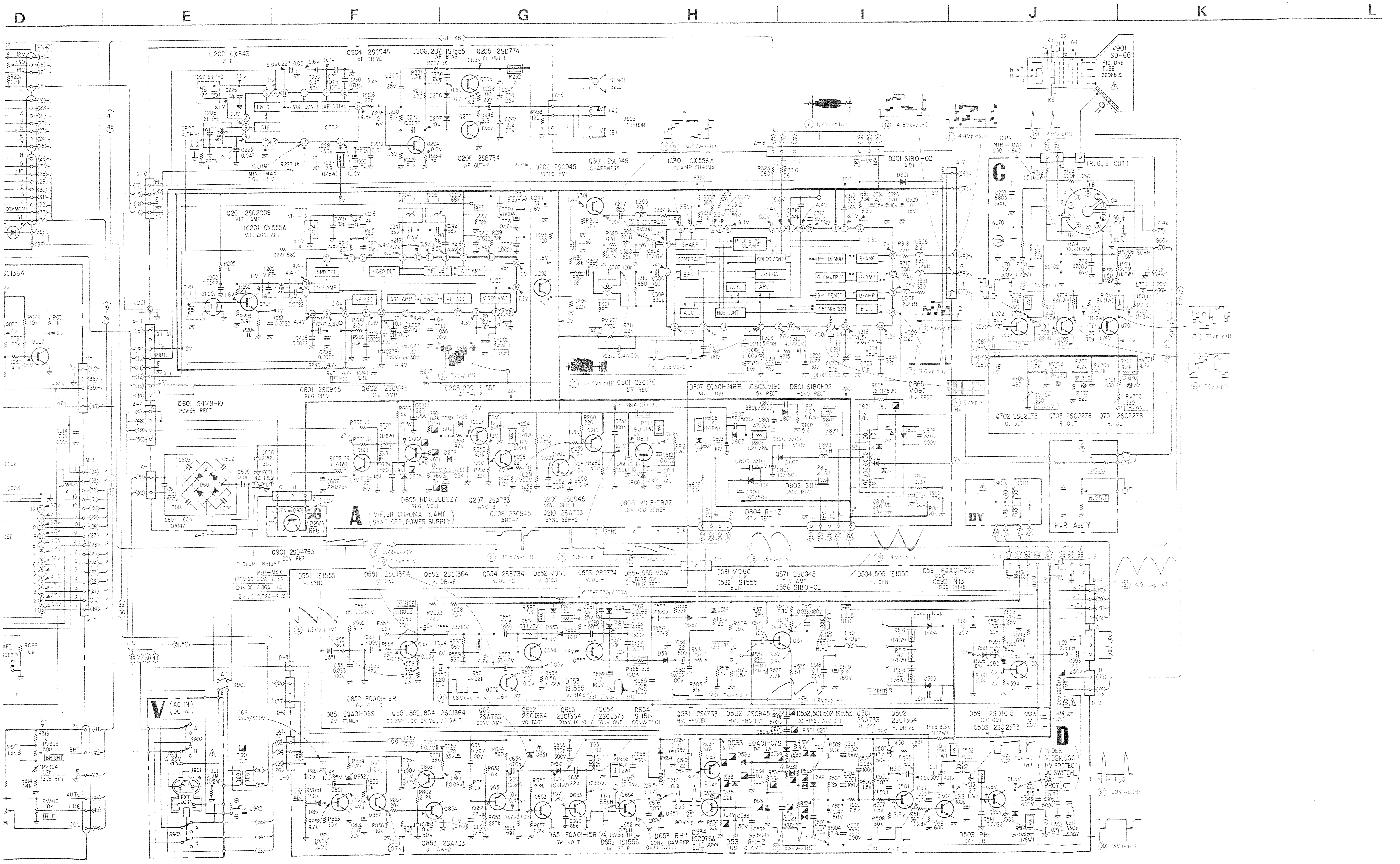
  (Refer to R605 adjustment on page 16.)

Part replaced (◪)	Adjustment
C531, C534, C535, D531 D532, D533, D534, Q531 Q532, R531, R532, R533 R534, R536, R538, R539 T504, T801	R532, R533, R534 adjustment
D605, Q602, Q901, R604 R605, RV601, T901	R605 adjustment

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on the MB board are taken with set selected to CH-1 and high band.
- Voltages on the D board are taken with the condition below.
- ( ) : with external power supply (DC 24V) connected.
- : with external power supply (DC 12V) connected.
- [ ] : with rechargeable battery pack (DC 24V) connected.
- 〖 〗 : with rechargeable battery (DC 21V) connected.
- Waveforms ㉑ – ㉕ are taken with external power supply (DC 12V) connected.
- If the point marked ◆ is touched with the VOM probe, B+ voltage will not be supplied to the set.



A
B
C
D
E
F
1
2
3
4
5
UHF TELESCOPIC VHF ANTENNA
UHF/VHF IN J101 (75Ω)
UV SEPARATOR
X (ANT TERMINAL)
VHF/UHF TUNER BT-854
S
TUNER, ACTIVE FILTER
Q101 2SC1364 ACTIVE FILTER
CHANNEL | VOLTAGE
VHF 2CH–6CH | 3V–19V
VHF 7CH–13CH | 7.5V–20V
UHF 14CH–83CH | 1.3V–27V
MEASURED USING VTVM
M (CHANNEL SELECT PICTURE SOUND CONT)
NL2201–2214 CHANNEL
S2201–2214 CHANNEL SELECT
D853 SEL101R OVER DISCHRGE INDICATOR
SOUND
PICTURE
Q001 2SC1364 AFT DEFEAT
Q002 2SA733 AFT DEFEAT
Q003 2SC1364 AFT DEFEAT
Q004 2SA733 AFT DEFEAT
D001,002 1S1555 AFT DEFEAT LIMIT
Q005 2SC1364 1MHz OSC
Q008 2SA733 RESET
Q006,007 2SC1364 AFT
D003 RDS.1EB3Z AFT DEFEAT
IC001 μPC574J 33V REG
Q051 2N3904 PWM OUT
IC002
IC003
IC004
IC005
S083 UP
S084 DOWN
S085 CLEAR
PRESET S081
AFT S082
S301 AUTO
COLOR
HUE
BRIGHT
SUB BRT
D086 TLR124 BAND INDICATOR (L)
D087 TLY124 BAND INDICATOR (H)
D088 TLG124 BAND INDICATOR (U)
Q052,053,054 2SA733 TUNER BAND SWITCH (U, L, H)
D051,052,053,054,055 1S1555 BAND SWITCH, SWITCH 1,2, SWITCH
Q055,056 2SC1364 TUNER WIDE AFT BAND SWITCH, DEFEAT
D081,082,083,084,085 SR6320 INDICATOR LED
IC002 CX760C TUNING CONT
IC003 CX804 NEON DRIVE
IC004 CX761A TUNING MEMORY
IC005 M51903L LEVEL INDICATOR DRIVE
MB (TUNING CONTROL MEMORY, NEON DRIVE BAND SWITCH)
IC202 CX843 SIF
FM DET
VOL CONT
AF DRIVE
SIF
VOLUME MIN – MAX 0.6V – 11V
Q201 2SC2009 VIF AMP
IC201 CX555A VIF, AGC, AFT
SND DET
VIF AMP
RF AGC
Q601 2SC945 REG DRIVE
D601 S4VB-10 POWER RECT
G (22V REG)
A
Q901 2SD476A 22V REG
PICTURE BRIGHT
MIN – MAX
120V AC 0.9A–1.13A
24V DC 0.86A–1A
12V DC 2.32A–2.7A
D551 1S1555 V. SYNC
D852 EQA01 ZENER
D851 EQA01-06S 6V ZENER
V (AC IN DC IN)
S901
S902
S903
J901
J902
T901 P.T
EXT. DC IN


D
E
F
G
H
I
J
K
L
IC202 CX843 SIF
Q204 2SC945 AF DRIVE
D206,207 1S1555 AF BIAS
Q205 2SD774 AF OUT-1
Q206 2SB734 AF OUT-2
FM DET
VOL CONT
AF DRIVE
SIF
VOLUME MIN — MAX 0.6V — 11V
SP901 32Ω
J903 EARPHONE
Q202 2SC945 VIDEO AMP
Q201 2SC2009 VIF AMP
IC201 CX555A VIF, AGC, AFT
SND DET
VIDEO DET
AFT DET
AFT AMP
VIF AMP
RF AGC
AGC AMP
ANC
VIF AGC
VIDEO AMP
CF202 4.5MHz TRAP
Q301 2SC945 SHARPNESS
IC301 CX556A Y. AMP CHROMA
SUB CONTRAST
SHARP
CONTRAST
PEDESTAL CLAMP
COLOR CONT
BURST GATE
BPA
ACK
APC
ACC
HUE CONT
R-Y DEMOD
G-Y MATRIX
B-Y DEMOD
3.58MHz OSC
R-AMP
G-AMP
B-AMP
BLK
COLOR CONT
D301 S1B01-02 ABL
V901 SD-66 PICTURE TUBE 220FB22
SCRN MIN — MAX 250 — 640
(R, G, B OUT)
C
Q702 2SC2278 G. OUT
Q703 2SC2278 R. OUT
Q701 2SC2278 B. OUT
R-BKG
B-BKG
G-DRIVE
B-DRIVE
SCRN
FOCUS
H.STAT
HVR Ass'Y
DY
Q601 2SC945 REG DRIVE
Q602 2SC945 REG AMP
D208,209 1S1555 ANC-1,2
D601 S4VB-10 POWER RECT
D605 RD6.2EB2Z7 REG VOLT
Q207 2SA733 ANC-3
Q208 2SC945 ANC-4
Q209 2SC945 SYNC SEP-1
Q210 2SA733 SYNC SEP-2
Q801 2SC1761 12V REG
D806 RD13-EB2Z 12V REG ZENER
D807 EQA01-24RR -24V BIAS
D803 V19C 15V RECT
D801 S1B01-02 -24V RECT
D805 V09C 18V RECT
D802 GU1 120V RECT
D804 RH1Z 47V RECT
A
(VIF, SIF CHROMA, Y. AMP SYNC SEP, POWER SUPPLY)
Q901 2SD476A 22V REG
PICTURE BRIGHT
MIN — MAX
120V AC 1.9A — 1.134
24V DC 0.864 — 1A
12V DC 2.324 — 2.7A
D551 1S1555 V. SYNC
Q551 2SC1364 V. OSC
Q552 2SC1364 V. DRIVE
Q554 2SB734 V. OUT-2
D552 V06C V. BIAS
Q553 2SD774 V. OUT-1
D554,555 V06C VOLTAGE SW H. PULS RECT
D581 V06C
D582 1S1555
Q571 2SC945 PIN AMP
D556 S1B01-02
D504,505 1S1555 H. CENT
D591 EQA01-06S DGC
Q592 N13T1 DGC DRIVE
V.SIZE
V.HOLD
V.CENT
PIN AMP
H.CENT
D852 EQA01-16R 16V ZENER
D851 EQA01-06S 6V ZENER
Q851,852,854 2SC1364 DC SW-1, DC DRIVE, DC SW-3
Q651 2SA733 CONV AMP
Q652 2SC1364 VOLTAGE
Q653 2SC1364 CONV. DRIVE
Q654 2SC2373 CONV. OUT
D654 S-15H CONV. RECT
Q531 2SA733 HV. PROTECT
Q532 2SC945 HV. PROTECT
D532,501,502 1S1555 DC BIAS, AFC DET
Q501 2SC1364 H. OSC
Q502 2SC1364 H. DRIVE
Q591 2SD1015 DGC OUT
Q503 2SC2373 H. OUT
V (AC IN DC IN)
S901
S902
S903
T901 P.T
J901
J902
D533 EQA01-07S
Q853 2SA733 DC SW-2
D651 EQA01-15R SW VOLT
D652 1S1555 DC STOP
D653 RH1 CONV. DAMPER
D534 1S2076A HOLD DOWN RECT
D531 RH-1Z PUSE CLAMP
D503 RH-1 DAMPER
D
H.DEF, V.DEF, DGC HV PROTECT DC SWITCH BATT. PROTECT
T502 H.DT
T504 H.OT
T651 L.O.T
BRIGHT
SUB BRT
HUE
RV303
RV304
RV306
SOUND
COMMON